CMS–TOTEM

4.7 pb^{-1} (13 TeV)

$\pi^+\pi^-$

$d^3\sigma/dp_{1,T}dp_{2,T}d\phi$ [μb/GeV^2]

$0.35 < p_{2,T} < 0.40$ GeV

$0.30 < p_{2,T} < 0.35$ GeV

$0.25 < p_{2,T} < 0.30$ GeV

$0.20 < p_{2,T} < 0.25$ GeV

empirical exp

two–channel exp

Dime 1

fit

$0.40 < p_{1,T} < 0.45$ GeV

$0.45 < p_{1,T} < 0.50$ GeV

$0.50 < p_{1,T} < 0.55$ GeV

$0.55 < p_{1,T} < 0.60$ GeV

0 ϕ π